

CLAIMS

1. A rear projection-type screen for passing and focusing image light emitted from an image light source, characterized in that:

two sheet-like members each made of a transparent material and having minute lenses formed on at least one surface thereof are disposed such that the surfaces with the lenses formed thereon confront each other; and

a plurality of spacers are disposed at appropriate spaced intervals between the confronting lenses of the two sheet-like members within an effective screen area for passing and focusing the image light thereon.

2. The rear projection-type screen according to claim 1, characterized in that said two sheet-like members comprise, respectively, a lenticular lens sheet having a lenticular lens formed on at least one surface thereof and a Fresnel lens sheet having a Fresnel lens formed on one surface thereof.

3. The rear projection-type screen according to claim 1, characterized in that said two sheet-like members comprise, respectively, a compound-eye lens sheet having a compound-eye lens formed on one surface thereof and a Fresnel lens sheet having a Fresnel lens

formed on one surface thereof.

4. The rear projection-type screen according to claim 1, characterized in that said spacers are positioned between the crests of lens elements of the confronting lenses of the two sheet-like members.

5. The rear projection-type screen according to claim 1, characterized in that said spacers are formed integrally with one of the sheet-like members.

6. The rear projection-type screen according to claim 1, characterized in that said spacers are formed to a size kept within a rectangular parallelepiped region having a depth, a width, and a height each of 1 mm or less.

7. The rear projection-type screen according to claim 1, characterized in that said spacers are disposed in a peripheral region of an effective screen area.

8. A rear projection-type image display device for projecting image light emitted from an image light source at an enlarged scale with projection means, characterized by:

a rear projection-type screen for passing and focusing the image light projected by the projection means;

said the rear projection-type screen comprising

two sheet-like members each made of a transparent material and having minute lenses formed on at least one surface thereof, the two sheet-like members being disposed such that their surfaces with the lenses formed thereon confront each other; and

a plurality of spacers disposed at appropriate spaced intervals between the confronting lenses of the two sheet-like members within an effective screen area for passing and focusing the image light thereon.

9. The rear projection-type image display device according to claim 8, characterized in that said two sheet-like members comprise, respectively, a lenticular lens sheet having a lenticular lens formed on at least one surface thereof and a Fresnel lens sheet having a Fresnel lens formed on one surface thereof.

10. The rear projection-type image display device according to claim 8, characterized in that said two sheet-like members comprise, respectively, a compound-eye lens sheet having a compound-eye lens formed on one surface thereof and a Fresnel lens sheet having a Fresnel lens formed on one surface thereof.

11. The rear projection-type image display device according to claim 8, characterized in that said spacers are positioned between the crests of lens elements of

the confronting lenses of the two sheet-like members.

12. The rear projection-type image display device according to claim 8, characterized in that said spacers are formed integrally with one of the sheet-like members.

13. The rear projection-type image display device according to claim 8, characterized in that said spacers are formed to a size kept within a rectangular parallelepiped region having a depth, a width, and a height each of 1 mm or less.

14. The rear projection-type image display device according to claim 8, characterized in that said spacers are disposed in a peripheral region of an effective screen area.